



Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (original) An assembly comprising a package and at least one outlet wherein, in use, an inner space of the package is filled with a fluid to be dispensed, wherein in the inner space of the package there prevails a pressure for enabling dispensing the fluid via the outlet, the assembly further comprising a pressure control device connected to the outlet adjacent the outlet, for feeding the fluid to the outlet via the pressure control device at a predetermined constant pressure which is independent of, and less than, the pressure prevailing in the inner space of the package, the pressure control device comprising a housing provided with an inflow opening, an outflow opening and a fluid flow path extending in the housing between the inflow opening and the outflow opening, the inflow opening being in fluid connection with the inner space of the package and the outflow opening being in fluid connection with the outlet, and the pressure control device further comprising a controllable seal for releasing and closing the fluid flow path and a pressure sensor element accommodated in the housing for movement between a first and a second position, the pressure sensor element in the first position controlling the controllable seal to release the fluid path and in the second position controlling the controllable seal to close off the fluid path, the pressure sensor element on the one hand being exposed to the pressure prevailing in the fluid path downstream of the controllable seal, and on the other being exposed to a predetermined force which, in use, determines the predetermined pressure, wherein, in use, the pressure sensor element moves in the direction of the first position when the pressure prevailing in the fluid flow path downstream of the seal drops below the predetermined pressure determined by the predetermined force and the pressure sensor element moves in the direction of the second position when the pressure prevailing in the fluid flow path downstream of the seal rises above the predetermined pressure determined by the predetermined force, wherein the

pressure control device comprises a gas tight chamber, the pressure sensor element comprising a movable wall accommodated in the chamber for movement in an axial direction of the chamber between the first and the second position, the space enclosed by the movable wall and the chamber being filled with a gas for generating said predetermined force and the movable wall being movable between the first and the second position in a direction parallel to the direction of the fluid path at the controllable seal, wherein:

the movable wall is formed by a plunger accommodated in the chamber for movement in the axial direction of the chamber between the first and second position,

the plunger and the controllable seal are movable between the first and the second position in a direction parallel to a direction from the inflow opening to the outflow opening, and the pressure control device is located in the proximity of the outlet.

2. (original) An assembly according to claim 1, wherein the inflow opening of the pressure control device is connected to a diptube, so that the pressure control device is accommodated between the outlet and the diptube.

3. (original) An assembly according to claim 1, wherein the outlet is located on a top side of the package.

4. (original) An assembly according to claim 1, wherein the pressure control device is accommodated in the inner space of the package.

5. (original) An assembly according to claim 1, wherein the pressure control device is provided outside the package.

6. (original) An assembly according to claim 1, wherein the gas tight chamber is manufactured from a metal.

7. (original) An assembly according to claim 1, wherein at the outside of the package, the outlet comprises a shut-off valve for opening and closing the outlet.

8. (original) An assembly according to claim 1, wherein the outlet is mounted adjacent the outflow opening on the housing of the pressure control device.

9. (original) An assembly according to claim 1, wherein the outlet is located on top of the pressure control device.

10. (original) An assembly according to claim 1, wherein the pressure control device comprises a spring for generating a part of said predetermined force, the spring being accommodated in the space enclosed by the plunger and the chamber, wherein the spring presses the plunger in the direction of the first position.

11. (original) An assembly according to claim 1, wherein the pressure control device comprises at least one sealing element and the controllable seal comprises a bar-shaped element, connected to the plunger, the sealing element extending around the bar-shaped element and being connected to a housing of the pressure control device, the fluid flow path extending through the sealing element, the sealing element and the bar-shaped element in the first position releasing the fluid flow path, and the sealing element and the bar-shaped element in the second position closing the fluid flow path.

12. (original) An assembly according to claim 11, wherein, the bar-shaped element is movable between the first and second position in a direction which is parallel to the direction of the fluid path along the bar-shaped element.

13. (original) An assembly according to claim 1, wherein the package comprises one of an aerosol can and a bag-in-box.

14. (original) An assembly according to claim 1, wherein the fluid consists of a gas or liquid which may or may not be viscous.

15. (original) An assembly according to claim 1, wherein, in use, the inner space of the package is also filled with an inert gas for obtaining the pressure in the inner space of the package.

16. (original) An assembly according to claim 15, wherein the gas pressure in the inner space is greater than an atmospheric pressure.

17. (original) An assembly according to claim 1, wherein the controllable seal is movable in a direction parallel to the fluid path at the controllable seal.

18. (original) An assembly according to claim 1, wherein a sealing element is provided between the plunger and an inner wall of the chamber.

19. (original) An assembly according to claim 18, wherein the sealing element is attached to the plunger so that the sealing element is movable relative the chamber.

20. (currently amended) A pressure control device for delivering a fluid at a predetermined pressure, the device comprising:

a housing provided with an inflow opening, an outflow opening and a fluid flow path extending in the housing between the inflow opening and the outflow opening;

a controllable seal for releasing and closing the fluid flow path; and

a pressure sensor element accommodated in the housing for movement between a first and a second position, the pressure sensor element in the first position controlling the controllable seal to release the fluid path and in the second position controlling the controllable

seal to close off the fluid path, the pressure sensor element on the one hand being exposed to the pressure prevailing in the fluid path downstream of the controllable seal, and on the other being exposed to a predetermined force which determines the predetermined pressure, wherein the pressure sensor element moves in the direction of the first position when the pressure prevailing in the fluid flow path downstream of the seal drops below the predetermined pressure determined by the predetermined force and the pressure sensor element moves in the direction of the second position when the pressure prevailing in the fluid flow path downstream of the seal rises above the predetermined pressure determined by the predetermined force, wherein the pressure control device comprises a gas tight chamber, the pressure sensor element comprising a movable wall accommodated in the chamber for movement in an axial direction of the chamber between the first and the second position, the space enclosed by the movable wall and the chamber being filled with a gas for generating said predetermined force and the movable wall being movable between the first and the second position in a direction parallel to the direction of the fluid path at the controllable seal, wherein:

the movable wall is formed by a plunger accommodated in the chamber for movement in the axial direction of the chamber between the first and second position, and

the plunger and the controllable seal are movable between the first and the second position in a direction parallel to a direction from the inflow opening to the outflow opening.

21. (Canceled).

22. (Currently Amended) A pressurized package for delivering a fluid, comprising:  
an enclosed space, the enclosed space comprising a pressurized fluid to be delivered;  
an outlet;  
a fluid path extending between an opening to the enclosed space and the outlet, the outlet being disposed downstream of the enclosed space along the fluid path;  
a first valve, the first valve having a normal position obstructing passage of fluid along the fluid path and an in-use position allowing passage of fluid along the fluid path;

and

a pressure-regulating device comprising:

a sealed chamber comprising an enclosed fluid having a first pressure and being disposed downstream to the opening to the enclosed space;

a second valve disposed along the fluid path between the enclosed space and the outlet, the second valve being movable between a first position obstructing passage of the pressurized fluid along the fluid path from the enclosed space to the outlet and a second position allowing the pressurized fluid to pass along the fluid path from the enclosed space to the outlet; and

wherein a pressure of fluid present along the fluid path downstream of the second valve urges the second valve toward the first position and the first pressure of the enclosed fluid present within the sealed chamber urges the second valve toward the second position.

23. (New) The assembly of claim 1, wherein the plunger and controllable seal are connected to regulate the pressure in the fluid path based only on a difference between the pressure prevailing in the fluid flow path downstream of the seal and the pressure of the gas enclosed by the movable wall and the chamber.

24. (New) The assembly of claim 1, wherein the position of the movable wall with respect to the housing is determined by a sum of axial forces resulting from the pressure prevailing in the fluid flow path downstream of the seal and the pressure of the gas enclosed by the movable wall and the chamber, the sum of axial forces in the closed-off state and in the released state being the same.

25. (New) The assembly of claim 1, wherein the predetermined force is determined solely by the pressure of the gas enclosed by the movable wall.

26. (New) The assembly of claim 1, wherein, if the pressure prevailing in the fluid flow path downstream of the controllable seal drops below the pressure of gas enclosed by the movable wall and the chamber, the movable wall and the controllable seal operate to release the fluid flow path, thereby feeding the fluid to the outlet at the predetermined constant pressure.

27. (New) The pressure control device of claim 20, wherein the plunger and controllable seal are connected to regulate the pressure in the fluid path based only on a difference between the pressure prevailing in the fluid flow path downstream of the seal and the pressure of the gas enclosed by the movable wall and the chamber.

28. (New) The pressure control device of claim 20, wherein the position of the movable wall with respect to the housing is determined by a sum of axial forces resulting from the pressure prevailing in the fluid flow path downstream of the seal and the pressure of gas enclosed by the movable wall and the chamber, the sum of axial forces in the closed-off state and in the released state being the same.

29. (New) The pressure control device of claim 20, wherein the predetermined force is determined solely by the pressure of the gas enclosed by the movable wall.

30. (New) The pressure control device of claim 20, wherein, if the movable wall and the controllable seal operate to close off the fluid flow path, the pressure prevailing in the fluid flow path downstream of the controllable seal drops until the pressure prevailing in the fluid flow path downstream of the controllable seal equals the pressure of gas enclosed by the movable wall and the chamber, so as to deliver fluid to the outflow opening at the predetermined pressure.

31. (New) The pressure control device of claim 30, wherein, if the pressure prevailing in the fluid flow path downstream of the controllable seal drops below the pressure of gas enclosed by the movable wall and the chamber, the movable wall and the controllable seal operate to release

the fluid flow path, so as to limit delivery of fluid to the outflow opening at less than the predetermined pressure.

32. (New) The pressure control device of claim 20, comprising a spring for generating a part of the predetermined force to press the plunger in the direction of the first position.

33. (New) The pressurized package of claim 22, wherein the second valve is configured to regulate the pressure based only on a difference between the pressure of fluid present along the flow path downstream of the second valve and the first pressure of fluid present within the sealed chamber.

34. (New) The pressurized package of claim 22, wherein the position of the second valve with respect to the sealed chamber is determined by a sum of axial forces resulting from the pressure of fluid present along the flow path downstream of the second valve and the first pressure of fluid present within the sealed chamber, the sum of axial forces in the closed state and in the open state being the same.

35. (New) The pressurized package of claim 22, wherein the sealed chamber includes a movable wall operably connected to the second valve, the only force urging the second valve toward the second position being supplied by the first pressure fluid present within the sealed chamber.

36. (New) The pressurized package of claim 22, wherein, if the second valve operates to obstruct the fluid flow path, the pressure of fluid present along the flow path downstream of the second valve drops until the pressure of fluid present along the flow path downstream of the second valve equals the first pressure of fluid present within the sealed chamber, so as to deliver fluid to the outlet at the first pressure.



37. (New) The pressurized package of claim 36, wherein, if the pressure of fluid present along the flow path downstream of the second valve drops below the first pressure of fluid present within the sealed chamber, the second valve operates to allow passage along the fluid path, so as to limit delivery of the fluid to the outlet at less than the first pressure.

38. (New) The pressurized package of claim 22, wherein the pressure-regulating device comprises a spring that urges the second valve in the direction of the second position.